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**Listing of the claims:**

1. (Previously Presented) A carbon nanotube composition, comprising:  
a catalyst comprising Co and Mo disposed on a support material wherein  
the majority of the Mo occurs as dispersed Mo oxide clusters and  
the majority of the Co initially occurs as  $\text{CoMoO}_4$  with the Co  
therein primarily in an octahedral configuration, and wherein the  
 $\text{CoMoO}_4$  occurs substantially disposed upon the dispersed Mo oxide  
clusters; and  
single walled carbon nanotubes disposed upon the catalyst.
2. (Previously Presented) The carbon nanotube composition of claim 1  
wherein the support material of the catalyst is silica.
3. (Previously Presented) The carbon nanotube composition of claim 1  
wherein the molar ratio of Co:Mo of the catalyst is less than 3:4.
4. (Previously Presented) The carbon nanotube composition of claim 1  
wherein the support material of the catalyst is not a carbon nanotube.
5. (Previously Presented) The carbon nanotube composition of claim 1  
wherein the Mo oxide clusters of the catalyst comprise Mo oxide clusters having

a domain size between that of  $\text{MoO}_3$  and heptamolybdate.

6-29 (Cancelled)

30. (Previously Presented) The carbon nanotube composition of claim 1 wherein the majority of the single walled carbon nanotubes disposed on the catalyst have a diameter between about .7 nm to about .9 nm.

31. (Previously Presented) The carbon nanotube composition of claim 1 wherein the majority of the single walled carbon nanotubes disposed on the catalyst have a diameter between about .9 nm to about 1.2 nm.

32. (Previously Presented) The carbon nanotube composition of claim 1 wherein the majority of the single walled carbon nanotubes disposed on the catalyst have a diameter between about 1.3 nm to about 1.7 nm.